

CLAIMS:

1. An electroluminescent color display panel comprising a plurality of pixels arranged in rows and columns to form a grid pattern, each pixel comprising at least two color sections, a first color section of which emits light of a first color, and a second color section emits light of a second color being different from the first color, characterized in that the positional arrangement of the first and second color sections within a first one of the pixels, further referred to as the first pixel, is different from the positional arrangement of the first and second color sections within a second one of the pixels, further referred to as the second pixel, wherein the first pixel is adjacent to the second pixel.

2. An electroluminescent color display panel as claimed in claim 1, wherein the first pixel and the second pixel are arranged in the same column.

~~3. An electroluminescent color display panel as claimed in claim 1 or 2, wherein the first color sections are adjacently arranged on parallel, laterally spaced apart, slanting lines with respect to the column direction.~~

4. An electroluminescent color display panel as claimed in claim 3, wherein the first color sections, which are arranged on one slanting line, form a continuous strip of electroluminescent material.

~~5. An electroluminescent color display panel as claimed in claim 3 or 4, wherein the acute angle between a vertical column and the slanting lines is in a range of +10 and -10 degrees around a preferred angle α , and the preferred angle α is equal to:~~

$$\alpha = \arctan \left(\frac{P_r}{n \cdot P_c} \right)$$

~~wherein n is the number of color sections in a pixel, P_r is the pitch of the pixels in the row direction, and P_c is the pitch of the pixels in the column direction.~~

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6. An electroluminescent color display panel as claimed in claim 1, 2, 3, 4 or 5, wherein a color section comprises a layer of an organic electroluminescent material.

7. An electroluminescent color display panel as claimed in claim 6, wherein the organic electroluminescent material is a polymer.

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8. An electroluminescent color display panel as claimed in claim 1, 2, 3, 4 or 5, wherein a color section comprises a layer of a phosphor material which is excited by a plasma discharge.

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9. A method of manufacturing an electroluminescent color display panel, said method comprising the steps of:

- forming a plurality of parallel, laterally spaced first electrode strips on a substrate,
- arranging a plurality of parallel, laterally spaced electroluminescent strips, each strip, in operation, emitting light of one of at least a first or a second color, wherein strips of different colors are positioned side by side, in a repeating pattern,
- forming a plurality of parallel, laterally spaced second electrode strips, which second electrode strips cross the plurality of first electrode strips such that, in operation, an individual light-emitting device is allocated at the crossing of a first and a second electrode strip,

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characterized in that the electroluminescent strips are arranged on a plurality of parallel, laterally spaced slanting lines with respect to a grid formed by the first and second electrode strips.

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10. A method as claimed in claim 9, wherein the second electrode strips cross the first electrode strips substantially perpendicularly, which yields a substantially rectangular grid formed by the first and second electrode strips.

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11. A method as claimed in claim 9 or 10, wherein the acute angle between the first or the second electrode strip and a slanting line is in a range of +10 and -10 degrees around a preferred angle α , and the preferred angle α is equal to:

$$\alpha = \arctan \left(\frac{P_r}{n \cdot P_c} \right)$$

wherein n is the number of color sections in a pixel, P_r is the pitch of the pixels in the row direction, and P_c is the pitch of the pixels in the column direction.

13. An electronic device comprising an electroluminescent color display panel as claimed in claim 1.